

# CLAIMS

1. Elastomeric composition vulcanizable with sulfur and/or sulfur donators useful for the preparation of tyre treads which comprises:
  - 5 a) 100 parts of an elastomeric mixture comprising from 20 to 100% by weight of an elastomer deriving from the polymerization of a monovinylarene with a conjugated diene, the complement to 100 being selected from natural rubber, polybutadiene and  
10 other diolefin elastomers;
  - b) from 10 to 150 parts of silica per 100 parts of (a);
  - c) from 0 to 150 parts of carbon black per 100 parts of (a);
- 15 characterized in that the elastomeric mixture (a) has an epoxidation degree, defined by the number of moles of epoxidated double bonds with respect to the initial number of moles of diene double bonds, of between 0.7 and 8.0%.
- 20 2. Elastomeric composition according to claim 1, characterized in that the weight ratio between vinylarene and conjugated diene is from 10/90 to 40/60.
3. Elastomeric composition according to claim 1,  
25 characterized in that the elastomeric mixture (a)

comprises from 40 to 100% by weight of an elastomer deriving from the polymerization of a monovinylarene with a conjugated diene.

4. Elastomeric composition according to claim 1,  
5 characterized in that the elastomer deriving from the polymerization of a monovinylarene with a conjugated diene is the statistic styrene-butadiene copolymer (SBR).
5. Elastomeric composition according to claim 1,  
10 characterized in that the elastomeric mixture (a) has a content of epoxides of between 1.5 and 6.0%.
6. Elastomeric composition according to claim 1, wherein the quantity of silica is from 10 to 80 phr and the quantity of carbon black is from 2 to  
15 50 phr.
7. Elastomeric composition according to claim 6, wherein the quantity of silica is from 30 to 60 phr and the quantity of carbon black is from 3 to 30 phr.
- 20 8. Elastomeric composition according to claim 1, characterized in that the elastomeric mixture (a) basically consists of the statistic styrene-butadiene copolymer having a content of epoxides of between 0.7 and 8.0%.
- 25 9. Elastomeric composition according to claim 8,

characterized in that the content of epoxides is from 1.5 to 6.0%.

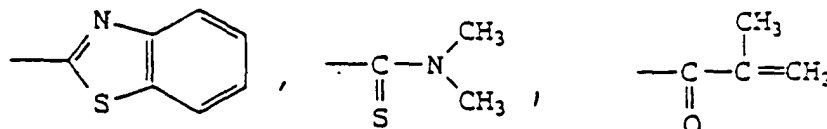
10. Elastomeric composition according to claim 1, characterized in that the elastomeric mixture (a)  
5 consists of 20-50% by weight of polybutadiene and 50-80% by weight of the statistic styrene-butadiene copolymer having a content of epoxides of between 0.7 and 8.0%.
11. Composition according to claim 10, characterized  
10 in that the elastomeric mixture (a) consists of 30-40% by weight of polybutadiene and 60-70% by weight of the statistic styrene-butadiene copolymer.
12. Composition according to claim 10, characterized  
15 in that the statistic styrene-butadiene copolymer has a content of epoxides of between 1.5 and 6.0%.
13. Elastomeric composition vulcanizable with sulfur and/or sulfur donors useful for the production of tyre treads which comprises:  
20 a) 100 parts of an elastomeric mixture comprising from 20 to 100% by weight, preferably from 40 to 100% by weight, of an elastomer deriving from the polymerization of a monovinylarene with a conjugated diene, preferably a styrene-butadiene  
25 copolymer, the complement to 100 being selected

from natural rubber, polybutadiene and other diolefin elastomers; the elastomer (a) having an epoxidation degree of between 0.7 and 8%, preferably between 1.5 and 6.0%;

5 b) from 10 to 150, preferably from 10 to 80, even more preferably from 30 to 60, parts of silica per 100 parts of (a);

c) from 0 to 150, preferably from 2 to 50, even more preferably from 3 to 30, parts of carbon  
10 black per 100 parts of (a);

d) from 0.2 to 15 phr of a coupling agent having general formula (I)  $Y_3-Si-C_nH_{2n}A$ , wherein Y is an alkoxide group having from 1 to 4 carbon atoms or a chlorine atom, n is an integer from 1 to 6; A is  
15 selected from  $-S_mC_nH_{2n}Si-Y_3$ ,  $-X$  and  $SmZ$ , wherein X is selected from a nitrous, mercapto, amino, epoxy, vinyl, imide, chlorine group, Z is selected from



m is an integer from 1 to 6, Y is as defined above.

14. Composition according to claim 13, wherein the  
25 component (d) is in a quantity of from 2 to 6 phr.

15. Tyre treads obtained by vulcanizing the elastomeric compositions according to claims 1 to 14, with sulfur and/or sulfur donors in the presence of accelerators and vulcanization additives, at a temperature of between 130 and 180°C.
16. Treads according to claim 15, characterized in that the vulcanization is carried out at a temperature of between 140 and 170°C.